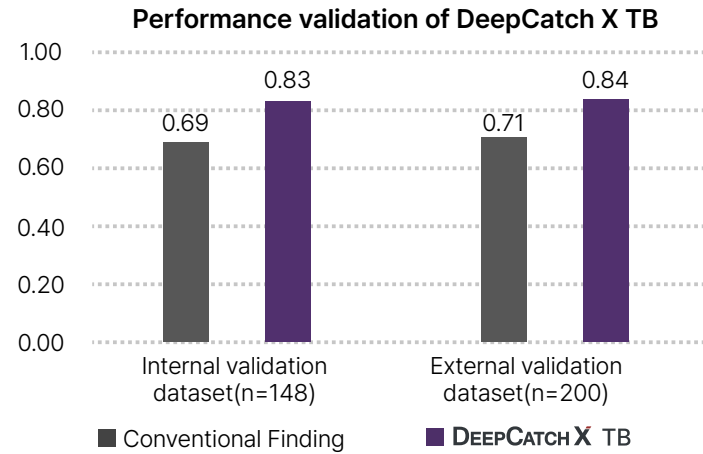


DeepCatch X TB

DeepCatch X TB can monitor active tuberculosis.

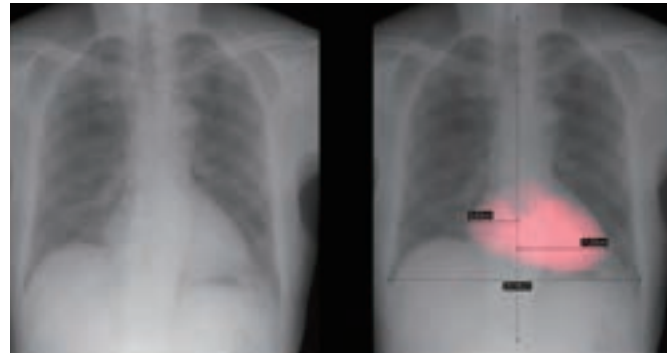


Lee, S., Yim, J. J., Kwak, N., Lee, Y. J., Lee, J. K., Lee, J. Y., ... & Yoon, S. H. (2021). Deep learning to determine the activity of pulmonary tuberculosis on chest radiographs. *Radiology*, 301(2), 435-442.

DeepCatch X Heart

By calculating and displaying the heart area, heart volume, and CT ratio, the presence or absence of cardiomegaly can be determined.

MAPE 3.12%



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DEEPCATCH X

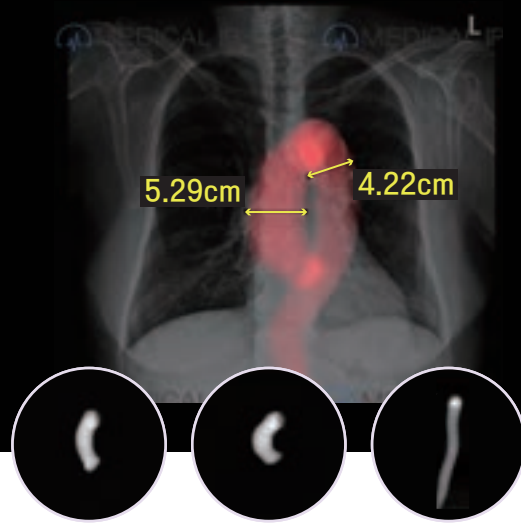
Aorta, Torso, TB, Heart

"Aorta, Heart MFDS (K-FDA) approved"
Torso 2024. 10. expected

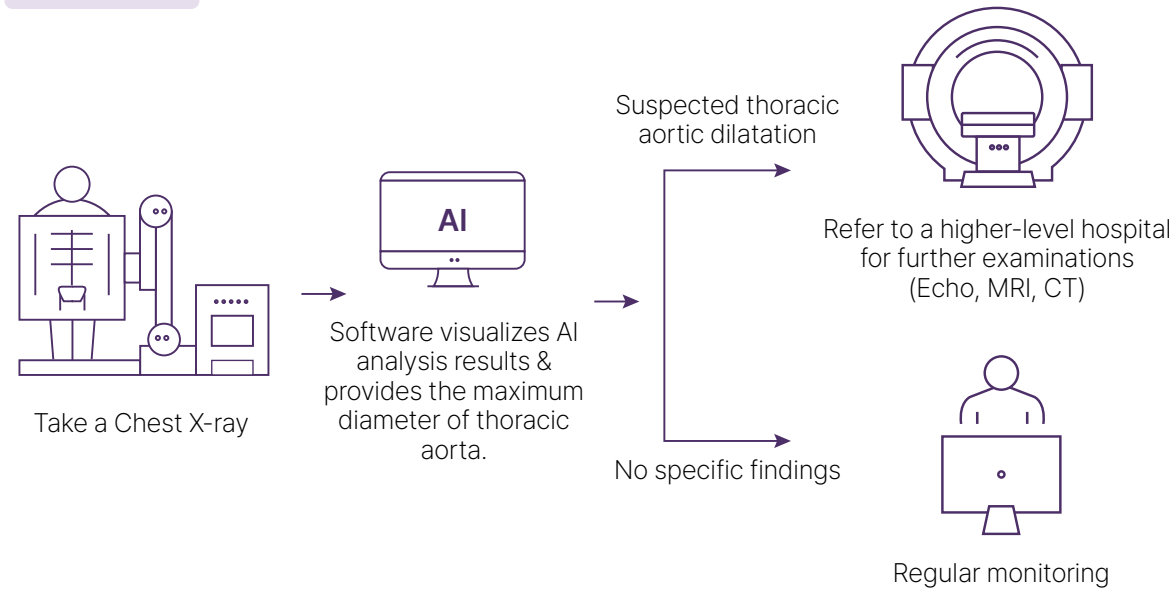
DeepCatch X Aorta

Detection of the maximum diameter of the thoracic aorta using chest X-ray.

- Cardiovascular image analysis software
 - Ascending aorta
 - Descending aorta

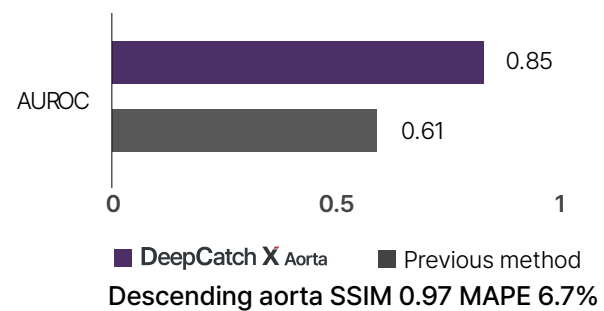


Workflow



Beyond the Limits of X-ray with AI

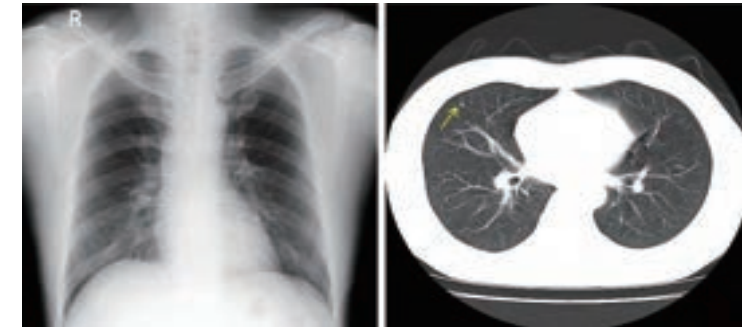
Ascending aortic dilation analysis (standard: 4.0cm or more)



On X-rays, several organ structures overlap, causing the aorta to appear obscured. **DeepCatch X Aorta overcomes the limitations of the two-dimensional X-ray images**, by combining artificial intelligence and computer engineering technology.

DeepCatch X Torso

A chest X-ray is one of the most commonly performed diagnostic examinations to detect pulmonary and heart disease.



Unlike CT scanning, a chest X-ray produces a single 2D image and usually requires much clinical experience for radiologists to make diagnosis. With **DeepCatch X Torso** radiologists can be benefitted for better visualization and easier clinical interpretation of chest X-rays.

Lung Volumetry

Instead of conventional methods such as plethysmography, **DeepCatch X Torso** can quantify 3D lung volume with only chest X-ray.



SSIM 0.99, R² 0.99

Bone Suppression

Removal of part of the ribs and clavicle improves diagnostic utility of the physician by increasing visibility of soft tissue or lesions.

SSIM 0.99

